

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number  
**WO 2004/085410 A1**

(51) International Patent Classification<sup>7</sup>: **C07D 243/04**

(21) International Application Number:  
PCT/KR2004/000652

(22) International Filing Date: 24 March 2004 (24.03.2004)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:  
10-2003-0019238 27 March 2003 (27.03.2003) KR

(71) Applicant (for all designated States except US):  
**PHARMICELL INC.** [KR/KR]; 601 Millennium Plaza,  
1267-5 Maetan 3-dong, Paldal-gu, Suwon-si, Kyunggi-do  
443-373 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LEE, Gwang**

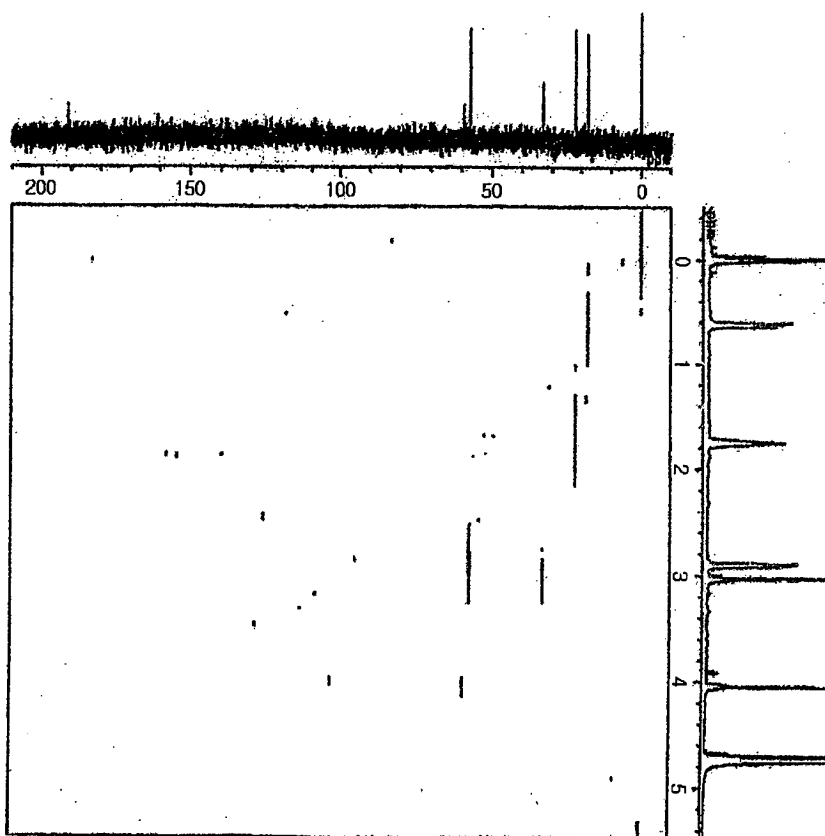
[KR/KR]; 106-206 Jugong Apt., 948-4 Yeongtong-dong,  
Yeongtong-gu, Suwon-si, Kyunggi-do 442-739 (KR).  
**AHN, Young Hwan** [KR/KR]; 107-1604 Park-Town  
DaeLim Apt., Sunae-dong, Bundang-gu, Sung-Nam Si,  
Kyunggi-do 463-727 (KR). **PARK, Ki Ho** [KR/KR];  
104-802 Ssangyong Apt., Bugok 3-dong, Geumjeong-gu,  
Busan 609-323 (KR). **JUN, Hong Ki** [KR/KR]; 304-1101  
Sunkyung 3 cha Apt., Guseo-dong, Geumjeong-gu, Busan  
609-310 (KR).

(74) Agent: **PAIK, Nam-Hoon**; 16th Fl., Woori Bank Bldg.,  
826-20, Yeoksam-dong, Kangnam-ku, Seoul 135-080  
(KR).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,  
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,

[Continued on next page]

(54) Title: ADENOSINE DEAMINASE INHIBITOR AND NOVEL BACILLUS SP. IADA-7 STRAIN WHICH PRODUCES IT



(57) Abstract: The present invention relates to an adenosine deaminase inhibitor and a novel *Bacillus* sp. strain which produces it. Particularly, the present 5 invention relates to the adenosine deaminase inhibitor, and the novel *Bacillus* sp. IADA-7 producing the above adenosine deaminase inhibitor. The adenosine deaminase inhibitor of the present invention shows superior antibacterial and anticancer activities to the previously reported adenosine deaminase inhibitors.

WO 2004/085410 A1



PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,  
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
ML, MR, NE, SN, TD, TG).

(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*